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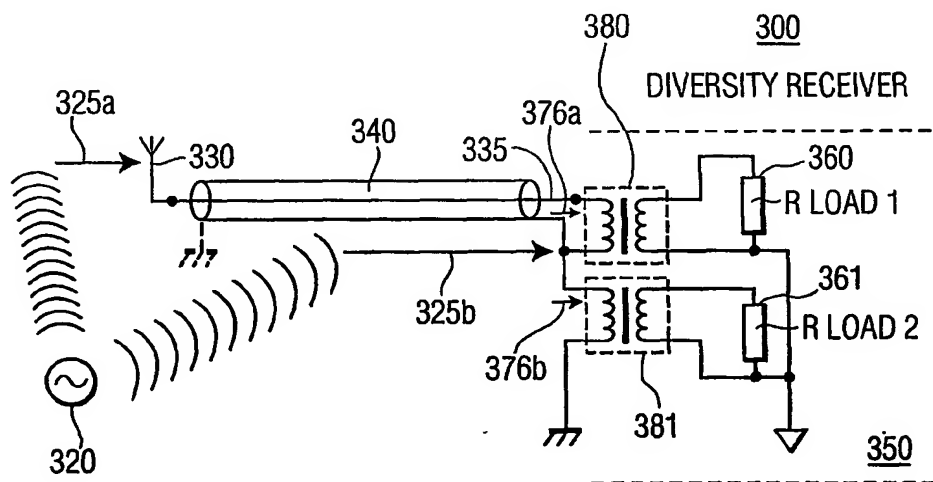
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- (72) Inventor; and (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR TRUE DIVERSITY RECEPTION WITH SINGLE ANTENNA



(57) Abstract: A system for wireless communication, particularly for receiving communication signals, said system comprising: A main antenna structure(330), said antenna structure adapted to receive a communication signal(325a) as a first internal signal; and an antenna cable, said antenna cable having a first end operationally coupled to said main antenna structure and a second end, said antenna cable including a main conductor(335) for passing said first internal signal, and a second receiving conductor(340), said second receiving conductor adapted to receive said communication signal as a second internal signal, and wherein said second receiving conductor as a receiving element is spatially separated from the main antenna structure. The disclosed antenna system and apparatus for the extraction of the second, spatially-separated received signal achieves spatial diversity to alleviate multipath effects in wireless communication systems.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04B7/08

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04B H01Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 150 983 A (MASSEY PETER J) 21 November 2000 (2000-11-21) column 1, line 66 -column 2, line 3 column 2, line 21 - line 25 column 4, line 45 -column 5, line 26; figure 1 column 8, line 38 - line 48; figure 6 column 9, line 1 - line 18 claims 1,2,4	1-21
A	EP 0 957 533 A (MITSUBISHI ELECTRIC CORP) 17 November 1999 (1999-11-17) paragraph '0021! - paragraph '0021!; figure 4	1-21

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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